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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/583,599	05/31/2000	Qing Min Wang	99A209	4043
20411	7590 01:10:2003			
THE BOC GROUP INC			EXAMINER	
100 MOUNTAIN AVENUE MURRAY HILL			TRAN, THAO T	
NEW PROVIDENCE, NJ 07974-2064			ART UNIT	PAPER NUMBER
			1711	14
			DATE MAILED: 01/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	•	Application No.	Applicant(s)
		09/583 599	WANG ET AL
Office Action Summary		Examiner	Art Unit
		Thao T Tran	1711
	The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence address
	or Reply HORTENED STATUTORY PERIOD FOR REPL	VIC SET TO EXPIDE 1	MONTH(S) FROM
THE - Extended after aft	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repoper of the provision of the	136(a) In no event, however, man oly within the statutory minimum of will apply and will expire SIX (6) No. e, cause the application to become	via reply be firmely filed thirty (30) days will be considered firmely MONTHS from the mailing date of this communication a ABANDONED (35 U.S.C. § 133)
Status	December to accompanie tion(a) filed on 22	October 2002	
1)⊠	Responsive to communication(s) filed on 23		
2a)∐	,—	his action is non-final.	
3) 🗌	Since this application is in condition for allow closed in accordance with the practice under	rance except for formal r FEx parte Quayle, 1935	C.D. 11, 453 O.G. 213.
•	tion of Claims		
4) 🛛	Claim(s) <u>1-8,11,13,14,16-25,28,30,31,33-46</u>		re pending in the application.
	4a) Of the above claim(s) is/are withdra	awn from consideration.	
5)[Claim(s) is/are allowed.		
6)	Claim(s) is/are rejected.		
7)	Claim(s) is/are objected to.		
E)[8 requirem	Claim(s) <u>1-8, 11, 13-14, 16-25, 28, 30-31, 33-</u>	.46, 49, 51-52, 54-64 are	e subject to restriction and/or election
•	tion Papers		
	The specification is objected to by the Examine	er.	
	The drawing(s) filed on is/are: a) acce		y the Examiner.
,	Applicant may not request that any objection to the		
11)	The proposed drawing correction filed on	_ is: a) _ approved b) [] disapproved by the Examiner
	If approved, corrected drawings are required in re	eply to this Office action	
12)	The oath or declaration is objected to by the E	xaminer.	
Priority	under 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.	C. § 119(a)-(d) or (f).
a)	□ All b)□ Some * c)□ None of:		
	1. Certified copies of the priority documen	ts have been received.	
	2. Certified copies of the priority documen	ts have been received in	n Application No
*	3. Copies of the certified copies of the prid application from the International Bo See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).
	Acknowledgment is made of a claim for domes		
;	a) The translation of the foreign language pr Acknowledgment is made of a claim for domes	ovisional application has	s been received.
Attachme			
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
S Patent and	Trademark Office		<u></u>

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DETAILED ACTION

Election/Restrictions

- 1. This application contains claims directed to the following patentably distinct species of the claimed invention:
- (A) claims 1-8, 11, 16-25, 28, 33-46, 49, and 54-64; including a leveler compound that is a polymeric compound; and
- (B) claims 13-14, 30-31, and 51-52; including a leveler compound that is a low molecular weight compound.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a)

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Should applicant traverse on the ground that the species are not patentably distinct. applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2A. Should (A) be selected, a plurality of disclosed patentable distinct species of a polymeric leveler compound is set forth, comprising:
 - 1) polyethylenimine, 80% ethoxylated;
 - 2) poly(allylamine);
 - 3) poly(allylamine hydrochloride);
 - 4) polyaniline, sulfonated, 5 wt. % in water, 75 mole % sulfonated;
 - 5) poly[bis((2-chloroethyl)etheralt-1,3-bis[3-(dimethylamino)propyl]urea, quaternited;
- 6) poly[N,N'-bis(2,2.6.6-tetramethyl-4-piperidinyl)-1.6-hexanediamine-co-2.4-dichloro-6-morpholino-1,3,5-triazine;
 - 7) polyacrylamide;
 - 8) poly(acrylamide-co-diallyldimethylammonium chloride);
 - 9) poly(diallydimethylammonium chloride);
 - 10) poly(melamine-co-formaldehyde), partially methylated;
 - 11) poly(4-cinylpyridine). 25% cross-linked; and
 - 12) poly(1,2-dihydro-2,2,4-trimethylquinoline).
- 2B. Should (B) be selected, a plurality of disclosed patentable distinct species of a low molecular weight leveler compound is set forth, comprising:

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- 1) 2,5-dithiobiurea:
- 2) dithiooxamide:
- 3) 1-phenyl-2-thiourea;
- 4) diethylenetriamine;
- 5) p-xylenebis(tetrahydrothiophenium)chloride;
- 6) [2-thiohydantoin,] pseudo thiohydantoin;
- 7) R-(-)-thiazolidine-4-carboxylic acid.
- 8) 3-(2'-thiopyridinium) propyl sulfonate:
- 9) 2,2'-dipyridyl disulfide;
- 10) 4,4'-dipyridyl disulfide;
- 11) thionicotinamide.
- 12) 4-(trifluoromethyl)-2-pyrimidinethiol,
- 13) 2-mercapto-4-methylpyrimidine hydrochloride;
- 14) 5-phenyl-1 H-1,2,4-triazole-3-thiol;
- 15) 5-(4'-pyridyl)-1 H-1,2,4-triazole-3-thiol;
- 16) 2-amino-6-purinethiol,
- 17) 4-amino-5-(4'-pyridyl)-4 H-1,2.4-triazole-3-diol;
- 18) diethyl heptadedecyl imidazolinium ethylsulfate;
- 19) hexamethylenetetraamine;
- 20) 1,3-bis(3-pyridylmethyl)-2-thiourea,
- 21) 2,4-diamino-6-mercaptopyrimidine hemisulfate;
- 22) dithiouracil;

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- 23) 4,5-diamino-2,6-dimercaptopyrimidine;
- 24) 4,5-diamino-6-hydroxy-2-marcaptopyrimidine hemisulfate hydrate:
- 25) 4(5)-imidazoledithio-carboxylic acid;
- 26) 2-mercapto-5-benzimidazolesulfonic acid;
- 27) sodium salt dihydrate;
- 28) 2-thiouracil;
- 29) trithiocyanuric acid;
- 30) (2-pyrimidylthio) acetic acid;
- 31) 7-trifluoromethyl-4-quinlinethiol:
- 32) 5-carbethoxy-2-thiouracil;
- 33) 1 H-1,2,4-triazole-3-thiol;
- 34) 1-phenyl-1 H-1,2,4-triazole-5-thiol;
- 35) N,N'-ethylene thiourea; and
- 36) 2-mercapto benzothiazole.
- 3. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.
- 4. Should applicant traverse on the ground that the species are not patentably distinct applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention

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5. A telephone call was made to Wan Yee Chung on January 6, 2003 to request an oral election to the above restriction requirement, but did not result in an election being made

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 703-306-5698. The examiner can normally be reached on Monday-Friday, from 8:30 a.m. 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661

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January 7, 2003

eimes J. Seidleck Supercisory Patent Examiner Center 1700